

*Ru(CO)<sub>3</sub>, Cl<sup>-</sup> Glycinate*  
(CORM-3)

Fig. 1A

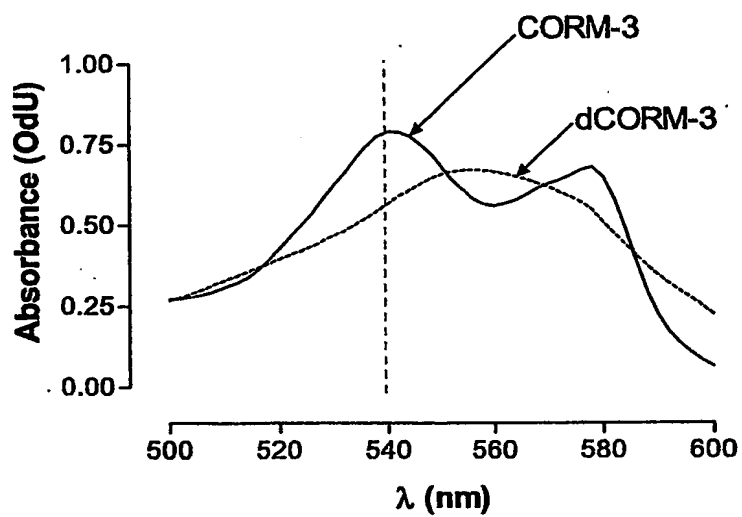


Fig. 1B

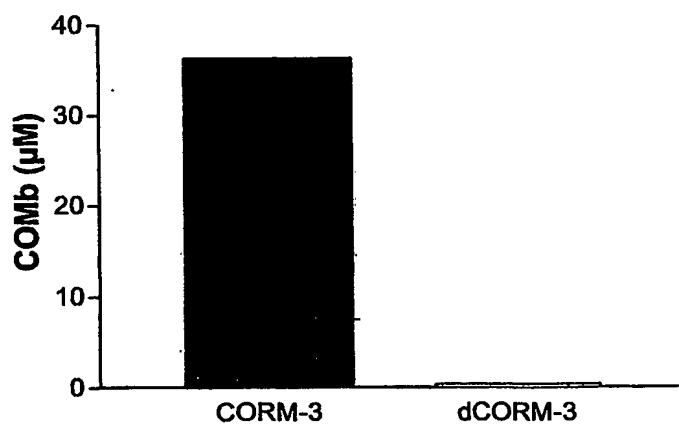


Fig. 1C

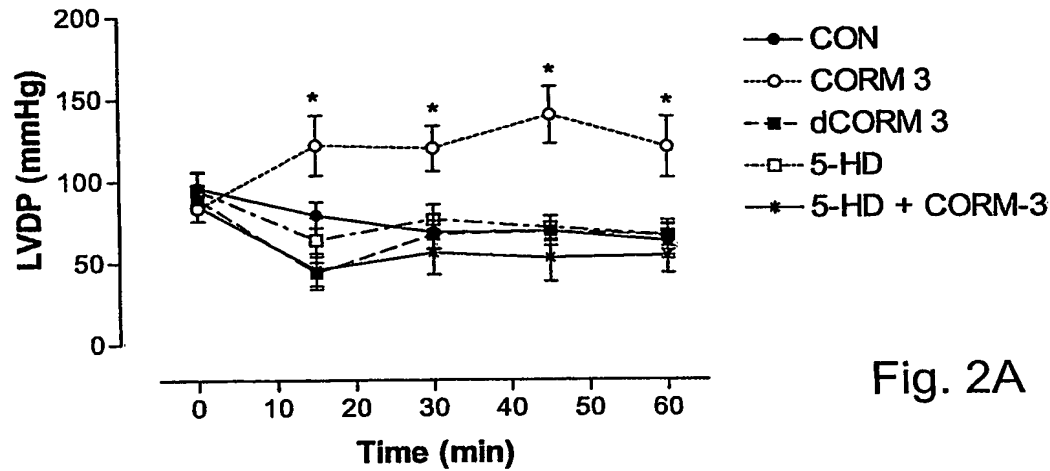


Fig. 2A

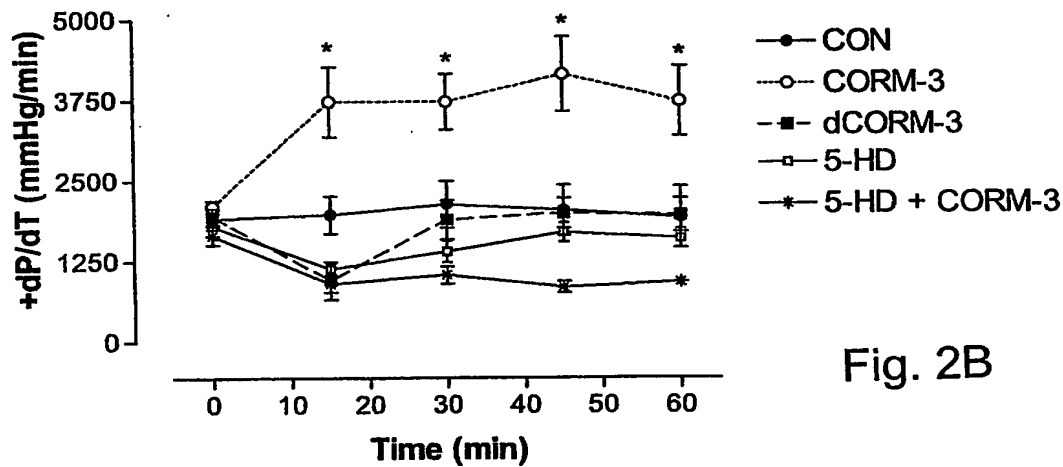


Fig. 2B

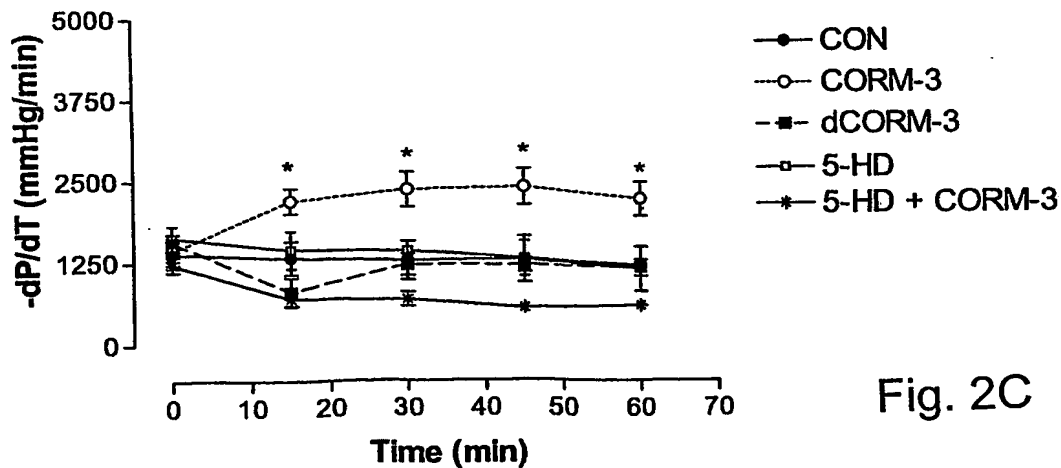


Fig. 2C

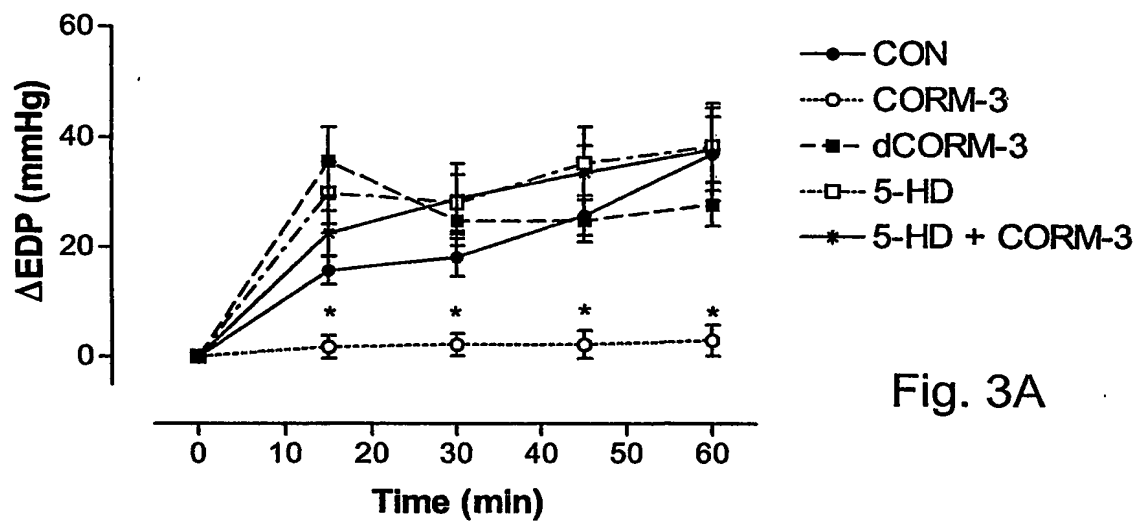


Fig. 3A

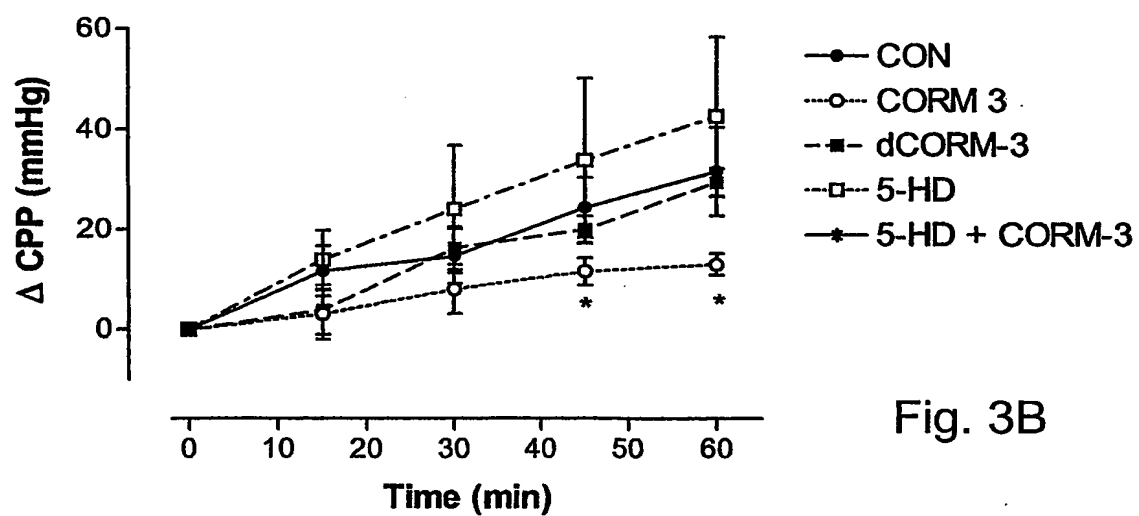


Fig. 3B

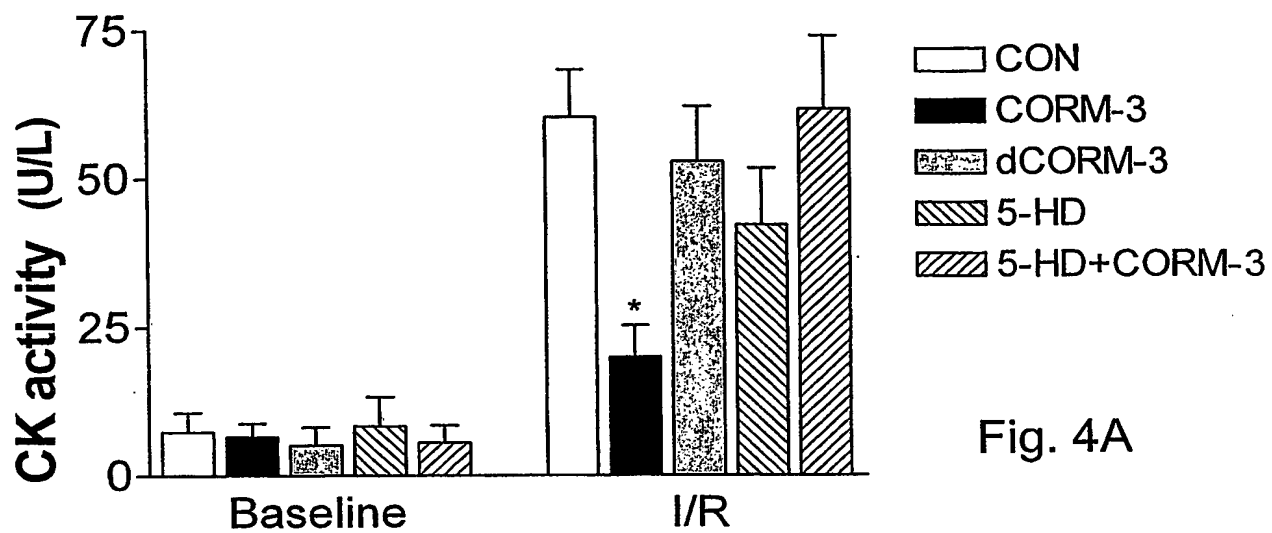


Fig. 4A

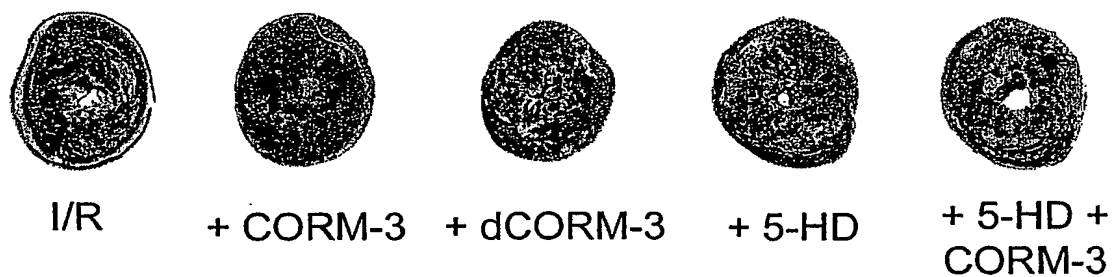


Fig. 4B

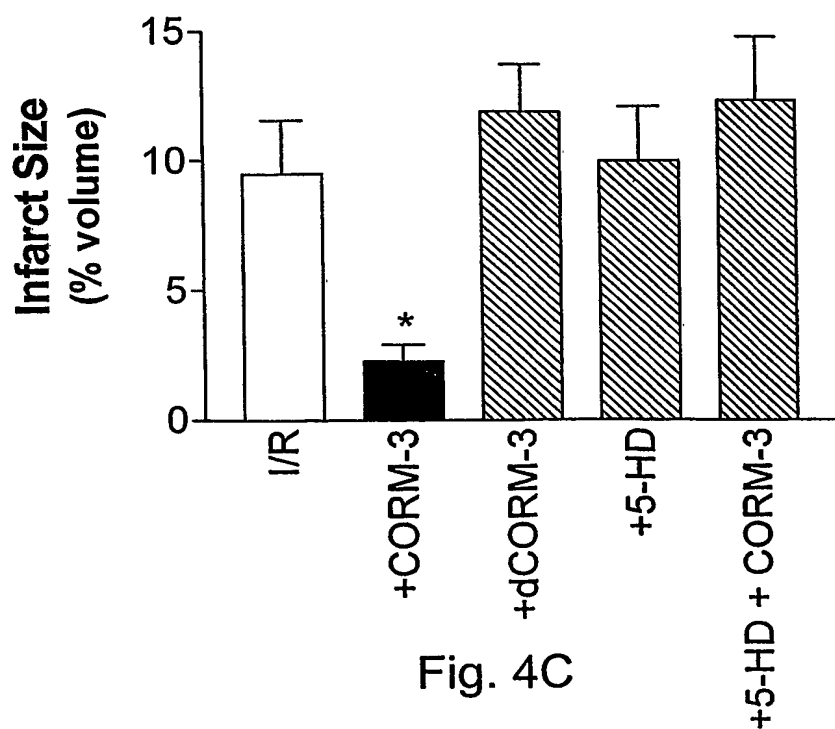


Fig. 4C

Compound	Structure	MW	CO Release (20 $\mu$ moles)				CO Release (40 $\mu$ moles)				NOTES
			0	10	20	30	0	10	20	30	
CO-RM-1		512	12.0 $\pm 3.0$	16.3 $\pm 4.0$	18.1 $\pm 4.3$	18.5 $\pm 4.8$	28.5 $\pm 0.4$	32.0 $\pm 0.2$	34.5 $\pm 0.5$	35.6 $\pm 0.4$	Soluble in DMSO
CO-RM-1a		384	7.2 $\pm 0.6$	8.6 $\pm 0.3$	8.0 $\pm 0.4$	7.5 $\pm 0.4$	16.9 $\pm 0.6$	18.4 $\pm 0.3$	17.3 $\pm 0.3$	16.7 $\pm 0.2$	Soluble in DMSO
Negative control		484	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Soluble in H <sub>2</sub> O
CO-RM-1b		334	6.4 $\pm 1.2$	7.3 $\pm 0.6$	8.2 $\pm 0.1$	8.7 $\pm 0.3$	11.7 $\pm 0.8$	13.7 $\pm 0.9$	14.0 $\pm 1.1$	14.4 $\pm 0.6$	Soluble in DMSO
CO-RM-10	$[\text{Ru}(\text{CO})_2\text{Cl}_2]_n$	(228)	2.6 $\pm 0.6$	9.8 $\pm 0.3$	12.7 $\pm 0.1$	13.8 $\pm 0.9$	8.6 $\pm 0.7$	21.0 $\pm 1.1$	24.4 $\pm 1.0$	26.3 $\pm 1.2$	Soluble in DMSO

Fig. 5A

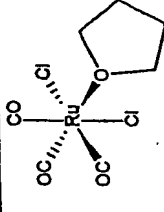
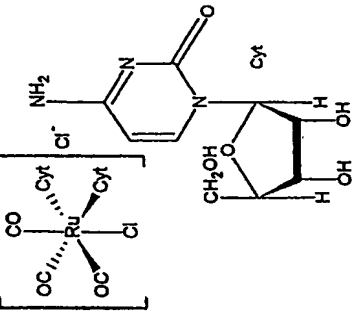
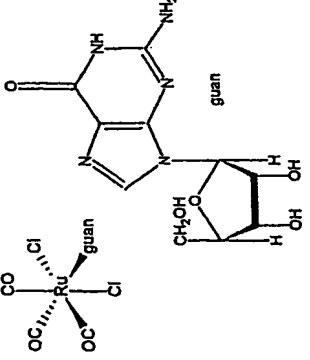
<b>CO-RM-11</b> Ligand: THF		328	5.6 ±0.6	5.9 ±0.6	6.2 ±1.1	6.2 ±1.2	10.9 ±0.2	12.3 ±0.4	13.3 ±0.4	13.7 ±0.2	Soluble in DMSO
<b>CO-RM-16</b> Ligand: Cytidine		742	N.D.	1.4 ±0.4	2.1 ±0.1	2.8 ±0.4	0.8 ±0.4	5.5 ±0.4	8.4 ±0.8	9.8 ±0.9	Soluble in H <sub>2</sub> O
<b>CO-RM-17</b> Ligand: Guanosine		539	5.9 ±0.1	8.2 ±0.4	8.5 ±0.3	8.6 ±0.4	11.5 ±0.4	15.0 ±0.4	15.6 ±0.4	16.2 ±0.3	Soluble in H <sub>2</sub> O

Fig. 5B

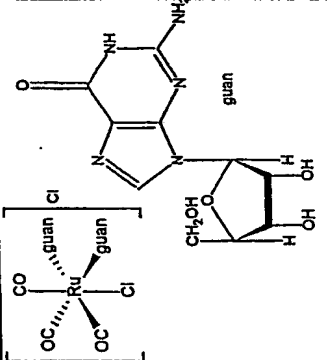
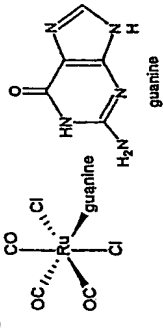
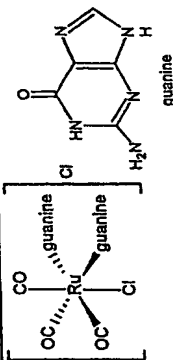
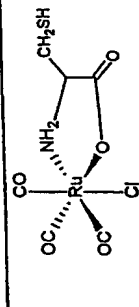
<b>CO-RM-18</b> Ligand: Guanosine		10.1 ±0.9	14.3 ±0.4	14.1 ±0.5	13.5 ±0.4	25.4 ±1.0	29.5 ±1.5	29.5 ±1.4	28.7 ±1.3	Soluble in H <sub>2</sub> O
<b>CO-RM-22</b> Ligand: Guanine		0.1 ±0.1	0.8 ±0.3	1.0 ±0.3	2.3 ±0.1	0.7 ±0.1	1.9 ±0.1	2.3 ±0.1	2.4 ±0.1	Soluble in H <sub>2</sub> O <b>PPT</b>
<b>CO-RM-23</b> Ligand: Guanine		1.2 ±0.1	1.3 ±0.2	1.3 ±0.1	1.0 ±0.2	2.7 ±0.3	2.7 ±0.3	2.7 ±0.4	2.3 ±0.2	Soluble in H <sub>2</sub> O <b>PPT</b>
<b>CO-RM-26</b> Ligand: Cysteine		0.6 ±0.1	1.9 ±0.1	2.3 ±0.2	2.4 ±0.2	1.9 ±0.2	3.7 ±0.1	5.1 ±0.1	5.2 ±0.1	Soluble in H <sub>2</sub> O

Fig. 5C

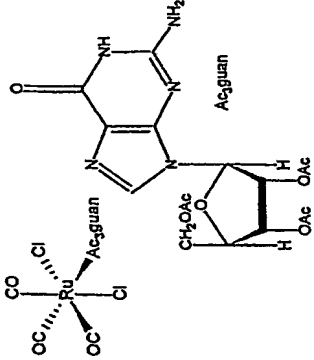
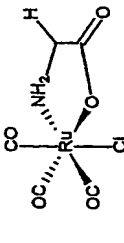
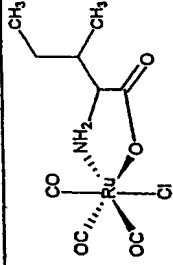
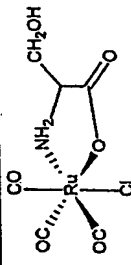
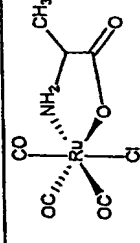
<b>CO-RM-29</b> Ligand: Triacetylle- guanosine		665	1.4 ±0.7	4.5 ±0.1	5.0 ±0.1	3.2 ±0.1	8.3 ±0.6	11.7 ±0.3	12.4 ±0.1	10.6 ±0.4	Soluble in H <sub>2</sub> O
<b>CO-RM-3</b> Ligand: Glycine		294.5	14.2 ±0.6	17.8 ±0.7	14.3 ±0.7	12.9 ±0.7	25.2 ±1.5	24.4 ±1.0	23.8 ±0.6	23.2 ±0.3	Soluble in H <sub>2</sub> O
<b>CO-RM-38</b> Ligand: Isoleucine		350.5	3.2 ±0.2	4.4 ±0.1	4.0 ±0.2	3.0 ±1.7	7.6 ±1.3	8.3 ±1.2	7.5 ±1.1	7.3 ±1.1	Soluble in H <sub>2</sub> O
<b>CO-RM-39</b> Ligand: Serine		324.5	11.0 ±0.3	12.8 ±0.9	11.4 ±1.1	10.8 ±0.7	24.2 ±1.5	24.6 ±1.4	22.0 ±1.0	21.9 ±1.2	Soluble in H <sub>2</sub> O
<b>CO-RM-40</b> Ligand: Alanine		308.5	9.1 ±1.1	11.9 ±0.4	11.1 ±0.3	11.0 ±0.2	20.2 ±0.6	21.3 ±0.9	19.9 ±0.9	19.6 ±0.9	Soluble in H <sub>2</sub> O

Fig. 5D



<b>CO-RM-42</b> Ligand: Glutamine		365.5	8.9 ±0.4	11.1 ±0.4	12.1 ±1.4	10.1 ±0.3	21.4 ±2.1	21.8 ±2.2	20.6 ±2.0	20.0 ±1.8	Soluble in H <sub>2</sub> O
<b>CO-RM-43</b> Ligand: Arginine		393.5	9.4 ±1.4	11.9 ±0.5	12.3 ±0.7	11.0 ±0.3	18.3 ±0.3	20.0 ±0.6	19.0 ±1.2	17.8 ±1.3	Soluble in H <sub>2</sub> O
<b>CO-RM-46</b> Ligand: Lysine		365.5	6.0 ±0.4	7.5 ±0.8	7.2 ±1.2	6.4 ±0.8	12.6 ±0.9	13.4 ±1.2	13.2 ±1.1	11.9 ±1.0	Soluble in H <sub>2</sub> O
<b>CO-RM-67</b> Ligand: L-valine		336.5	11.1 ±2.9	18.2 ±1.7	17.6 ±1.6	17.0 ±1.6	29.3 ±1.5	34.6 ±2.2	33.7 ±2.2	32.8 ±2.2	Soluble in H <sub>2</sub> O
<b>CO-RM-70</b>		240	0.5 ±0.2	0.9 ±0.1	2.2 ±0.2	2.7 ±0.3	0.9 ±0.1	2.0 ±0.2	4.9 ±0.2	6.3 ±0.3	Soluble in DMSO PPT
<b>CO-RM-71</b>		350	1.5 ±0.2	2.3 ±0.3	3.1 ±0.4	3.7 ±0.4	3.4 ±0.1	5.4 ±0.3	6.9 ±0.3	7.6 ±0.4	Soluble in DMSO PPT

Fig. 5E

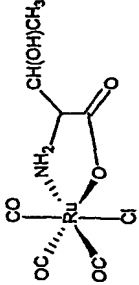
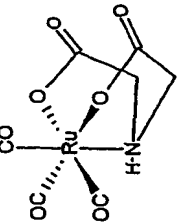
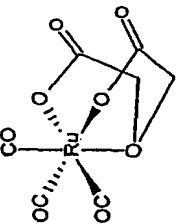
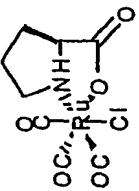
<b>CO-RM-74</b> Ligand: L-Threonine		338.5	15.7 ±1.2	17.5 ±2.0	16.5 ±2.3	14.8 ±2.2	33.3 ±0.2	33.4 ±0.1	32.7 ±0.2	31.4 ±0.1	Soluble in H <sub>2</sub> O
<b>CO-RM-97</b>		316	2.8 ±0.6	7.0 ±0.7	7.2 ±0.9	6.6 ±0.9	7.1 ±0.5	14.3 ±0.7	14.7 ±0.8	13.6 ±0.7	Soluble in H <sub>2</sub> O
<b>CO-RM-99</b>		317	4.6 ±0.6	8.1 ±0.2	7.3 ±0.3	5.5 ±0.3	11.5 ±0.2	16.6 ±0.2	16.0 ±0.9	14.0 ±0.2	Soluble in H <sub>2</sub> O
<b>CO-RM-H</b> Ligand: L-proline		335	1.4 ±0.3	4.7 ±0.6	6.2 ±0.8	6.3 ±0.7	4.2 ±0.4	9.9 ±0.2	12.5 ±0.1	13.0 ±0.1	Soluble in H <sub>2</sub> O

Fig. 5F